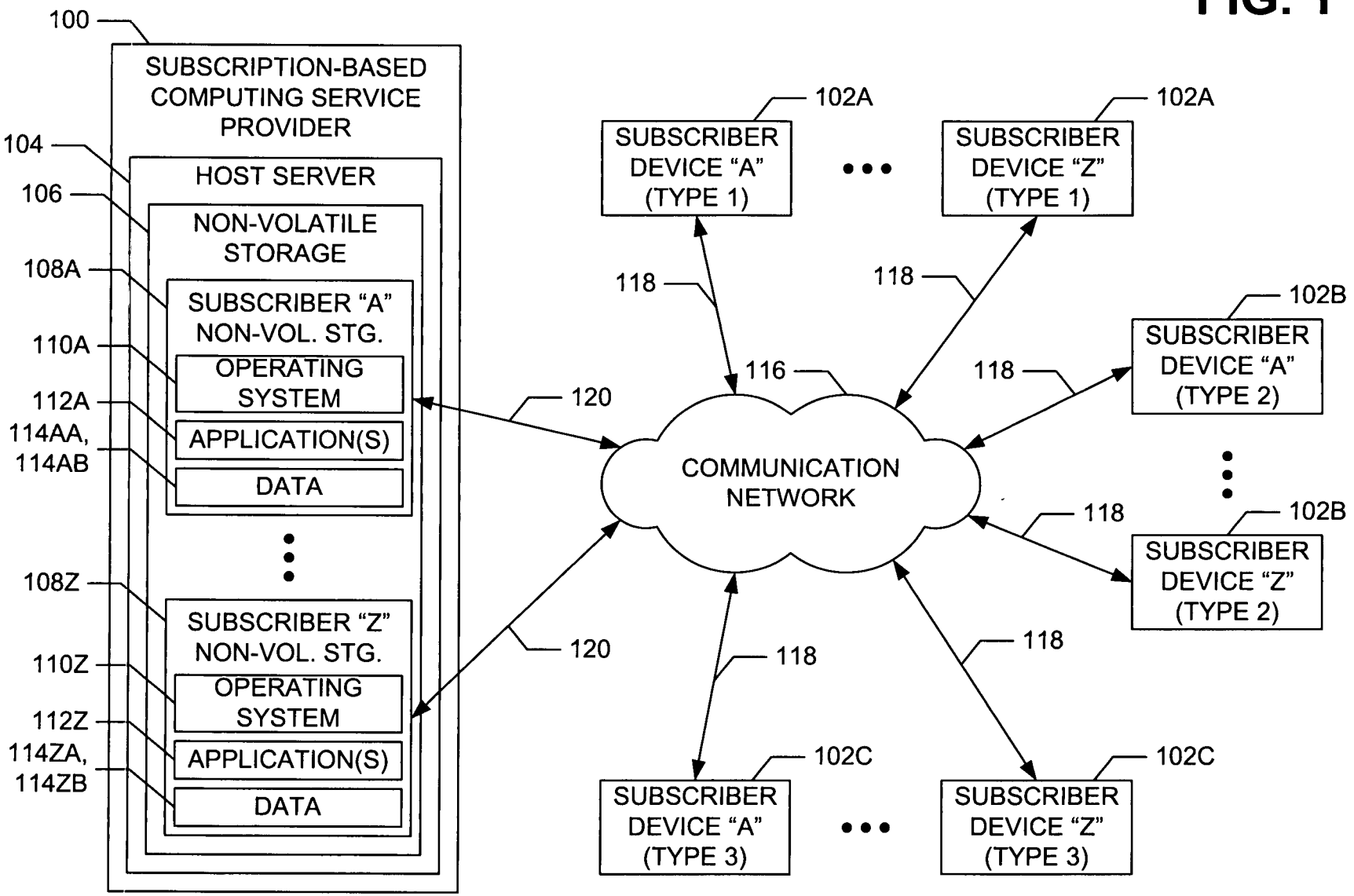
FIG. 1


100
SUBSCRIPTION-BASED COMPUTING SERVICE PROVIDER
104
HOST SERVER
106
NON-VOLATILE STORAGE
108A
SUBSCRIBER "A" NON-VOL. STG.
110A
OPERATING SYSTEM
112A
APPLICATION(S)
114AA, 114AB
DATA
108Z
SUBSCRIBER "Z" NON-VOL. STG.
110Z
OPERATING SYSTEM
112Z
APPLICATION(S)
114ZA, 114ZB
DATA
120
120
116
COMMUNICATION NETWORK
118
118
118
118
118
118
102A
SUBSCRIBER DEVICE "A" (TYPE 1)
102A
SUBSCRIBER DEVICE "Z" (TYPE 1)
102B
SUBSCRIBER DEVICE "A" (TYPE 2)
102B
SUBSCRIBER DEVICE "Z" (TYPE 2)
102C
SUBSCRIBER DEVICE "A" (TYPE 3)
102C
SUBSCRIBER DEVICE "Z" (TYPE 3)

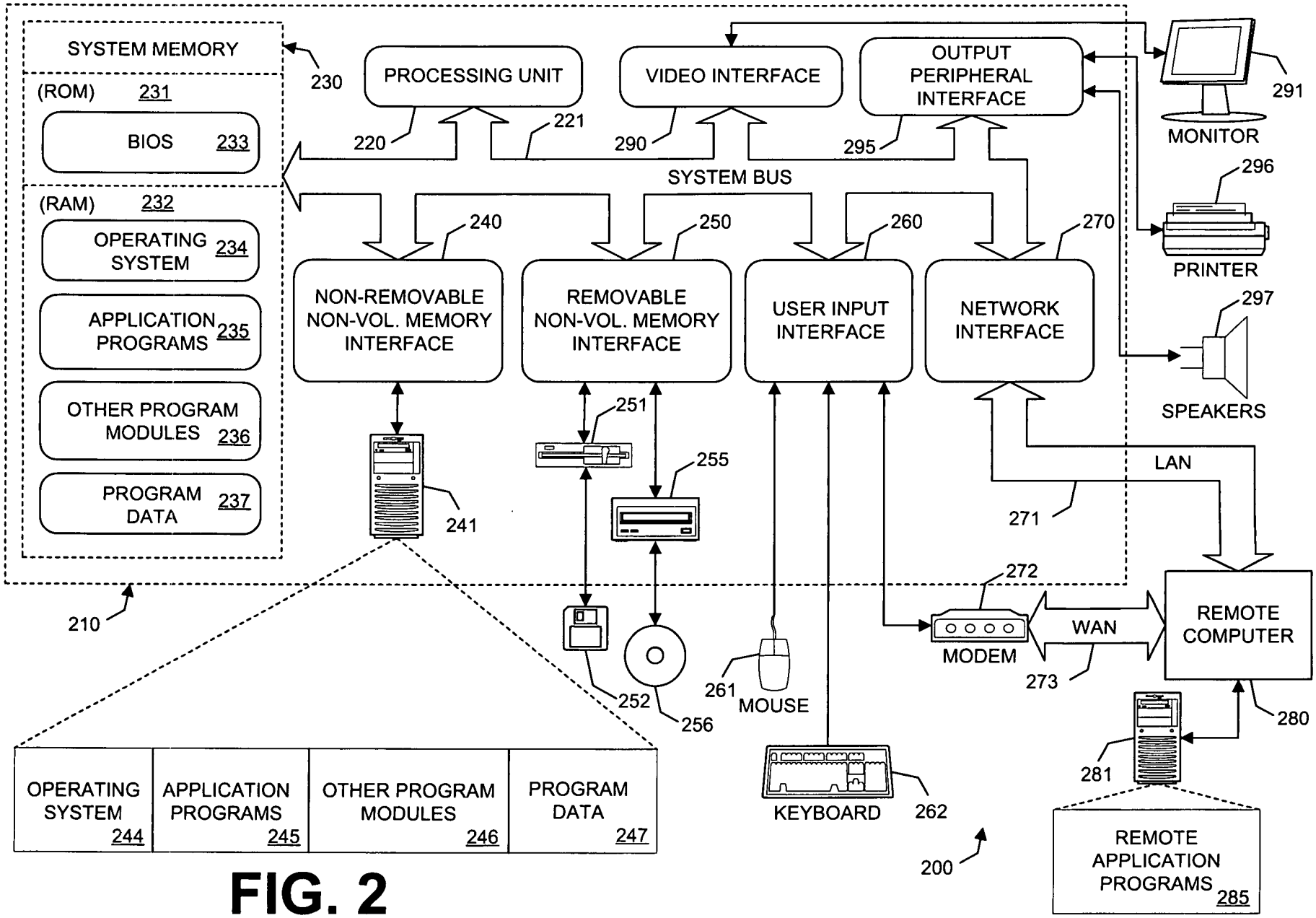

SYSTEM MEMORY
230
(ROM) 231
BIOS 233
(RAM) 232
OPERATING SYSTEM 234
APPLICATION PROGRAMS 235
OTHER PROGRAM MODULES 236
PROGRAM DATA 237
PROCESSING UNIT
VIDEO INTERFACE
OUTPUT PERIPHERAL INTERFACE
220
221
290
295
SYSTEM BUS
240
250
260
270
NON-REMOVABLE NON-VOL. MEMORY INTERFACE
REMOVABLE NON-VOL. MEMORY INTERFACE
USER INPUT INTERFACE
NETWORK INTERFACE
241
251
255
252
256
261
MOUSE
KEYBOARD
262
MONITOR
291
296
PRINTER
297
SPEAKERS
LAN
271
272
MODEM
WAN
273
REMOTE COMPUTER
280
281
REMOTE APPLICATION PROGRAMS 285
210
200
OPERATING SYSTEM 244
APPLICATION PROGRAMS 245
OTHER PROGRAM MODULES 246
PROGRAM DATA 247

FIG. 2

FIG. 3

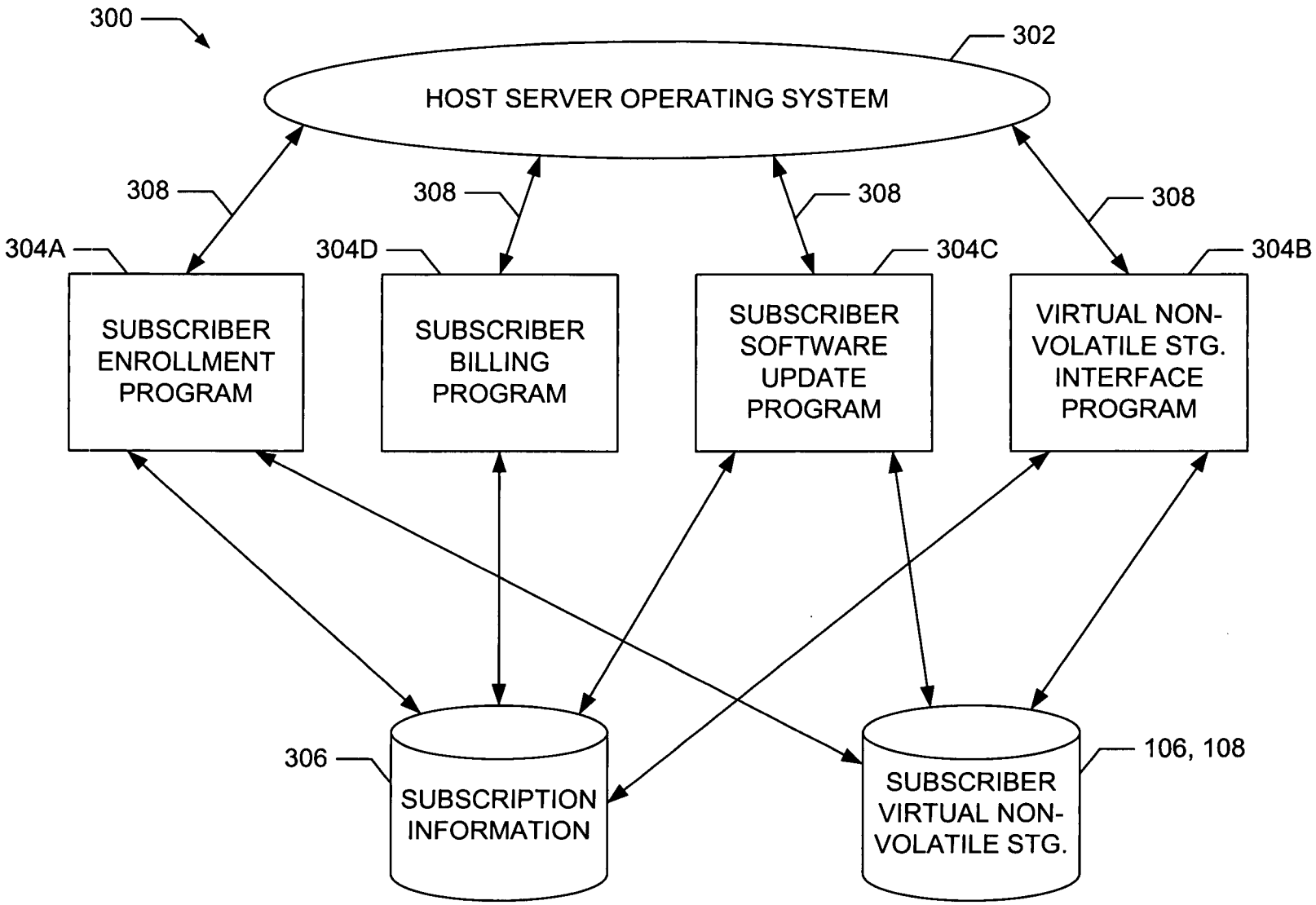

300
302
HOST SERVER OPERATING SYSTEM
308
308
308
308
304A
304D
304C
304B
SUBSCRIBER ENROLLMENT PROGRAM
SUBSCRIBER BILLING PROGRAM
SUBSCRIBER SOFTWARE UPDATE PROGRAM
VIRTUAL NON-VOLATILE STG. INTERFACE PROGRAM
306
SUBSCRIPTION INFORMATION
SUBSCRIBER VIRTUAL NON-VOLATILE STG.
106, 108

FIG. 4

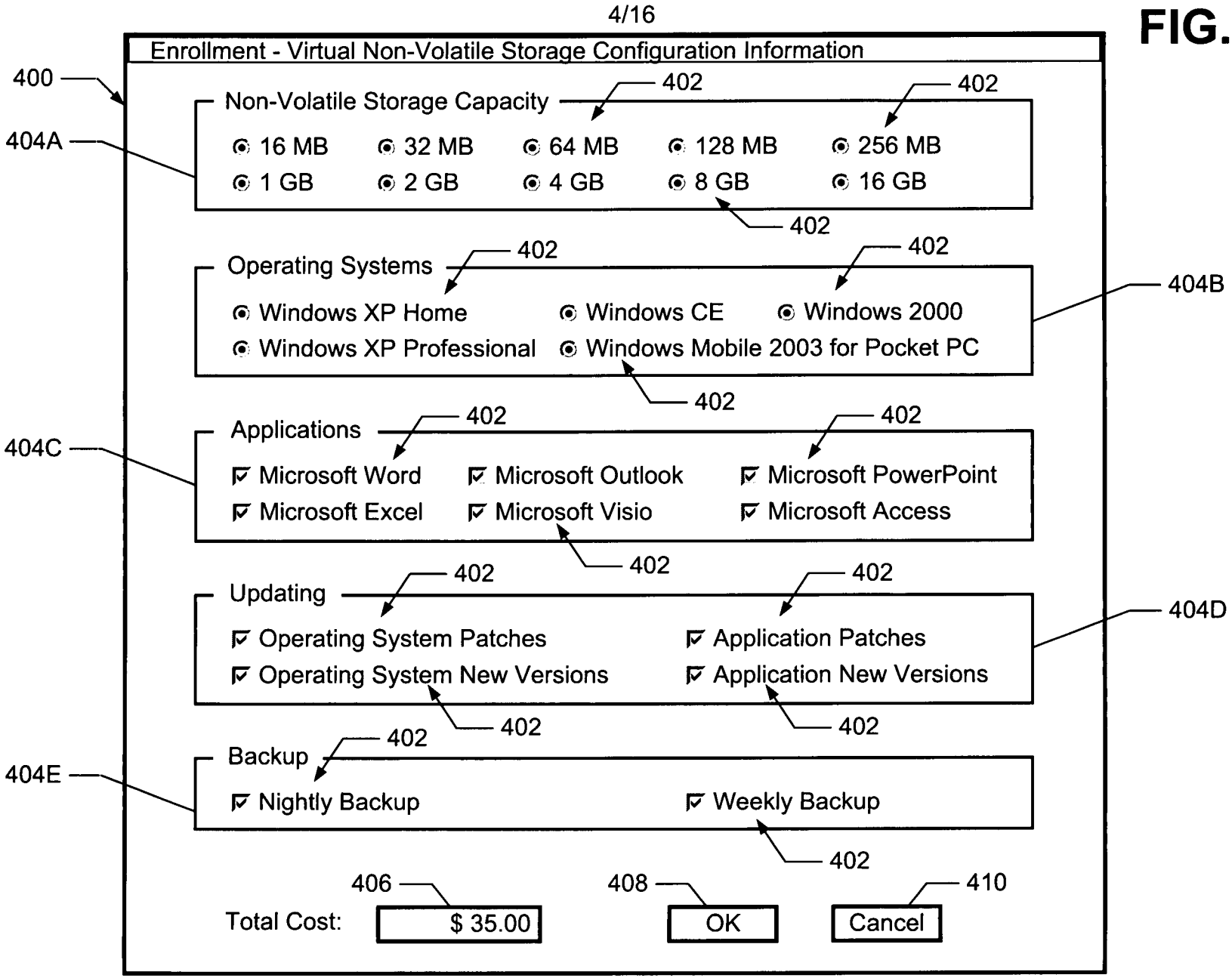

Enrollment - Virtual Non-Volatile Storage Configuration Information
400
Non-Volatile Storage Capacity
402
402
404A
16 MB
32 MB
64 MB
128 MB
256 MB
1 GB
2 GB
4 GB
8 GB
16 GB
402
Operating Systems
402
402
404B
Windows XP Home
Windows CE
Windows 2000
Windows XP Professional
Windows Mobile 2003 for Pocket PC
402
Applications
402
402
404C
Microsoft Word
Microsoft Outlook
Microsoft PowerPoint
Microsoft Excel
Microsoft Visio
Microsoft Access
402
Updating
402
402
404D
Operating System Patches
Application Patches
Operating System New Versions
Application New Versions
402
402
Backup
402
404E
Nightly Backup
Weekly Backup
402
406
408
410
Total Cost:
$ 35.00
OK
Cancel

FIG. 5

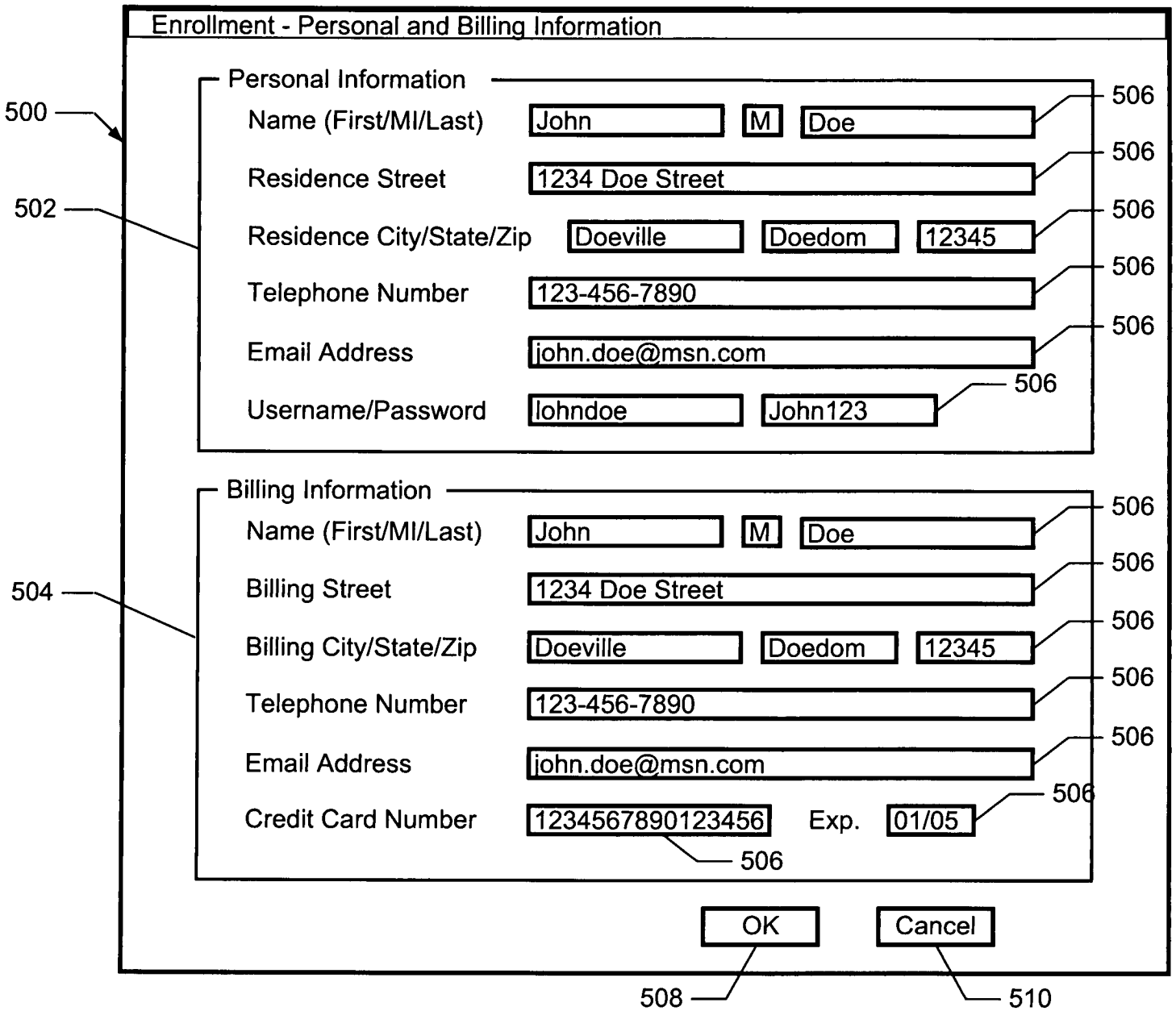

Enrollment - Personal and Billing Information
Personal Information
Name (First/MI/Last)
John
M
Doe
Residence Street
1234 Doe Street
Residence City/State/Zip
Doeville
Doedom
12345
Telephone Number
123-456-7890
Email Address
john.doe@msn.com
Username/Password
lohndoe
John123
Billing Information
Name (First/MI/Last)
John
M
Doe
Billing Street
1234 Doe Street
Billing City/State/Zip
Doeville
Doedom
12345
Telephone Number
123-456-7890
Email Address
john.doe@msn.com
Credit Card Number
1234567890123456
Exp.
01/05
OK
Cancel
500
502
504
506
508
510

FIG. 6

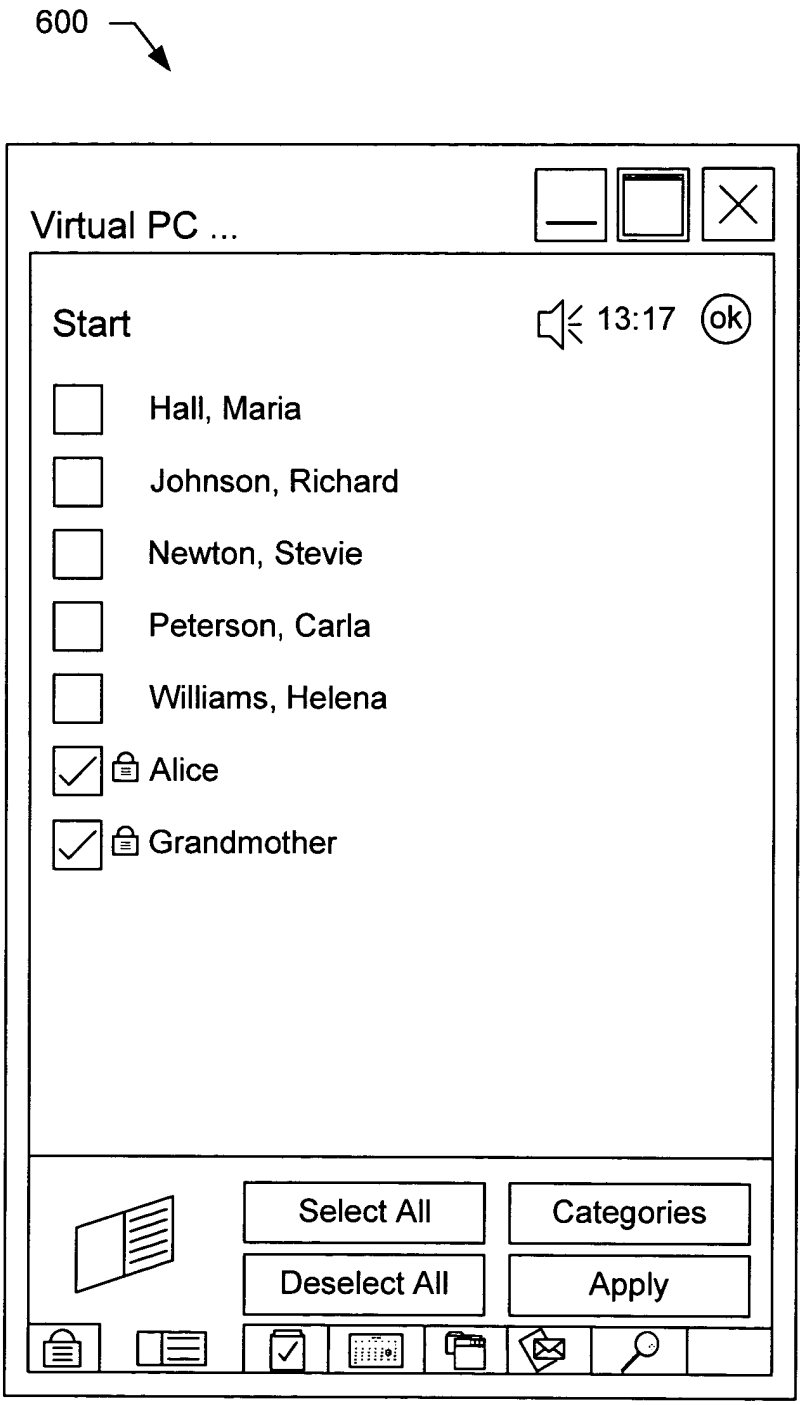

600
Virtual PC ...
Start
13:17
ok
Hall, Maria
Johnson, Richard
Newton, Stevie
Peterson, Carla
Williams, Helena
Alice
Grandmother
Select All
Categories
Deselect All
Apply

FIG. 7

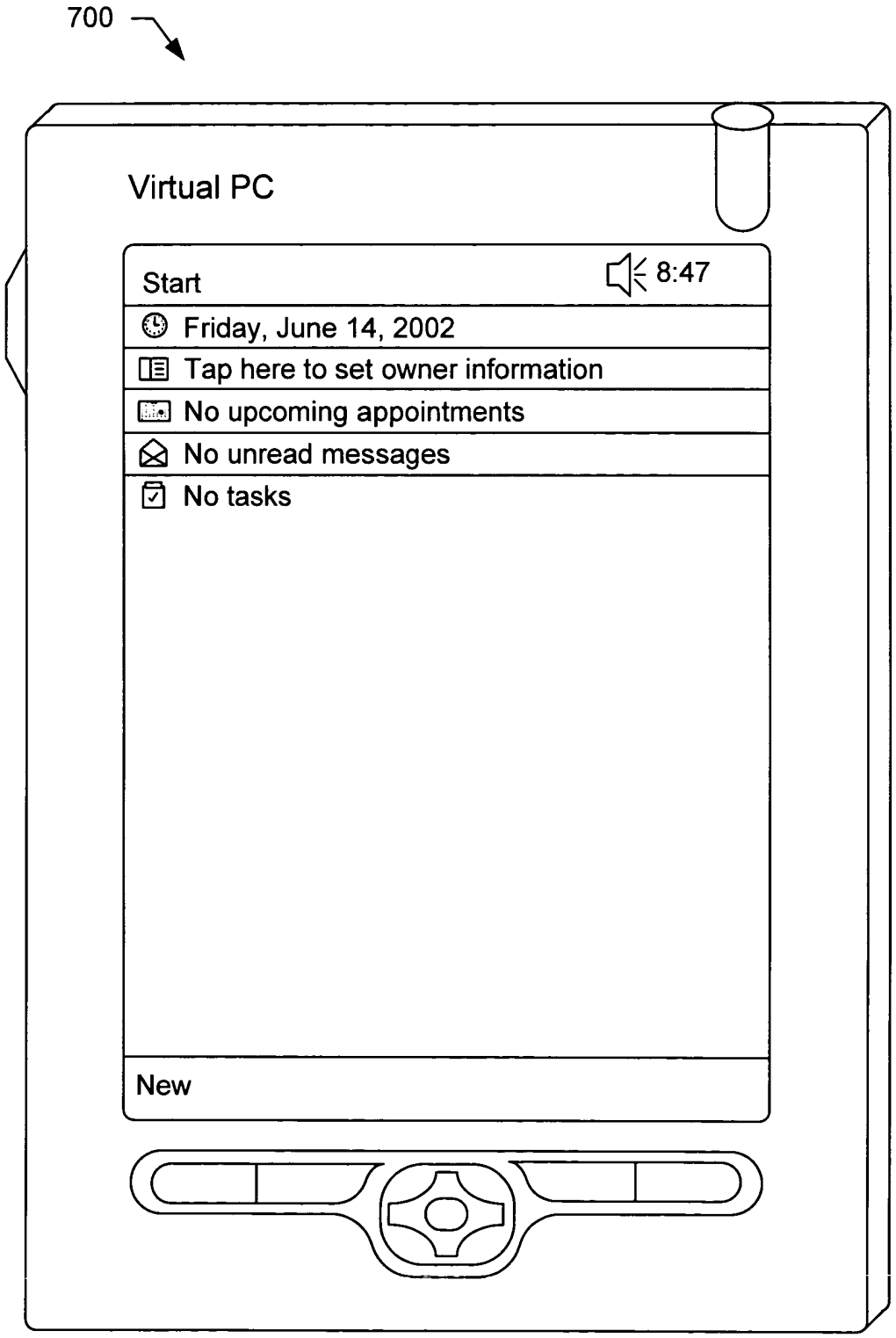

700
Virtual PC
Start
8:47
Friday, June 14, 2002
Tap here to set owner information
No upcoming appointments
No unread messages
No tasks
New

FIG. 8

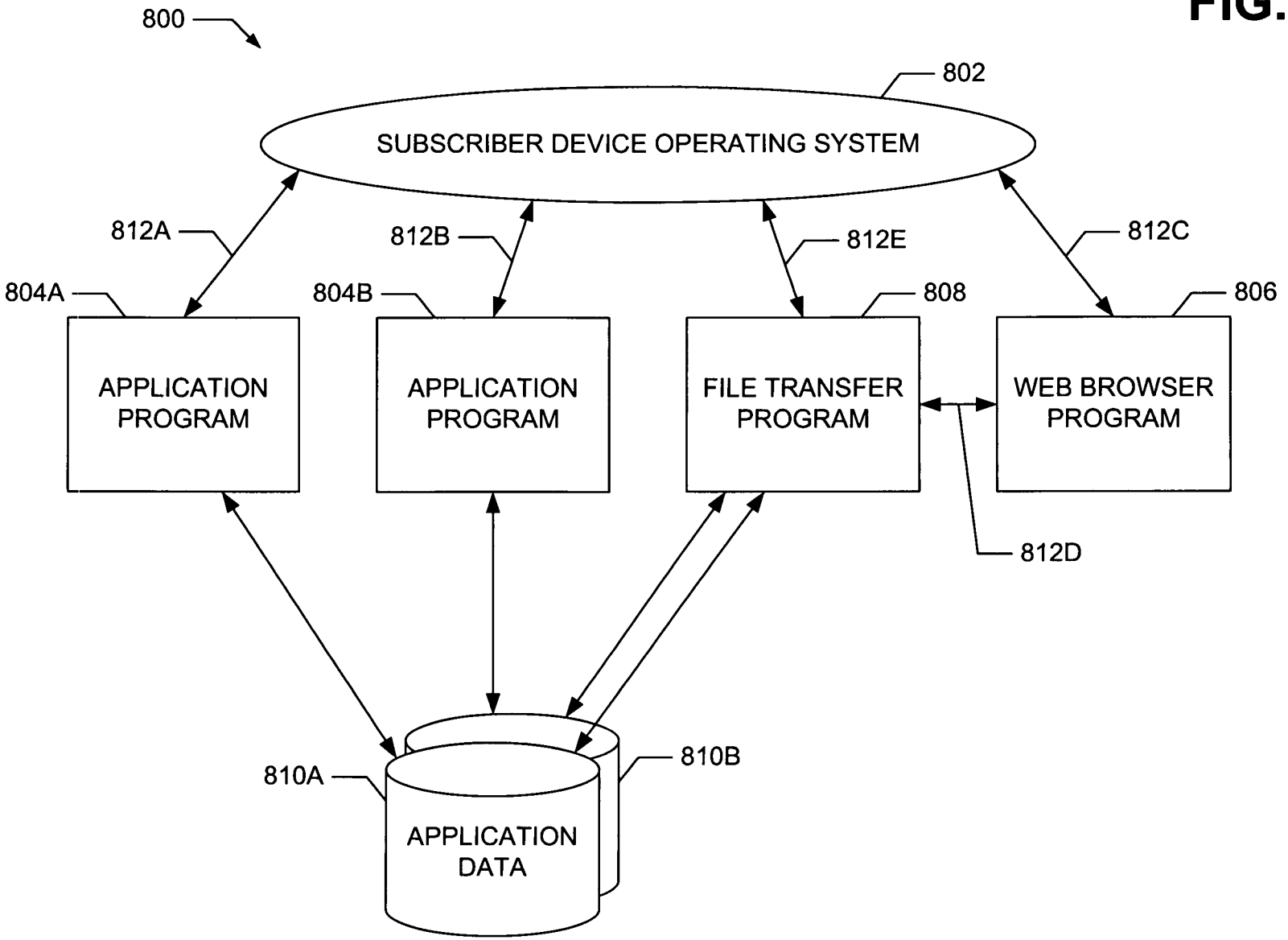

800
802
SUBSCRIBER DEVICE OPERATING SYSTEM
812A
812B
812E
812C
804A
804B
808
806
APPLICATION PROGRAM
APPLICATION PROGRAM
FILE TRANSFER PROGRAM
WEB BROWSER PROGRAM
812D
810A
810B
APPLICATION DATA

FIG. 9

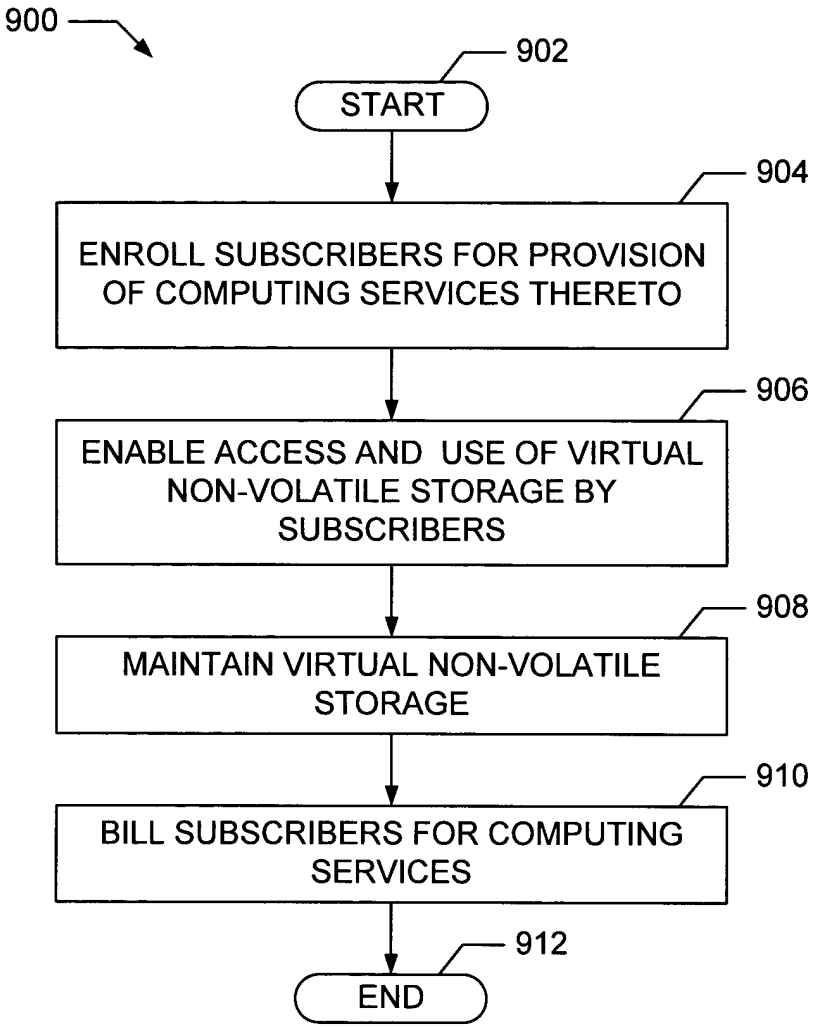

900
902
START
904
ENROLL SUBSCRIBERS FOR PROVISION OF COMPUTING SERVICES THERETO
906
ENABLE ACCESS AND USE OF VIRTUAL NON-VOLATILE STORAGE BY SUBSCRIBERS
908
MAINTAIN VIRTUAL NON-VOLATILE STORAGE
910
BILL SUBSCRIBERS FOR COMPUTING SERVICES
912
END

FIG. 10A

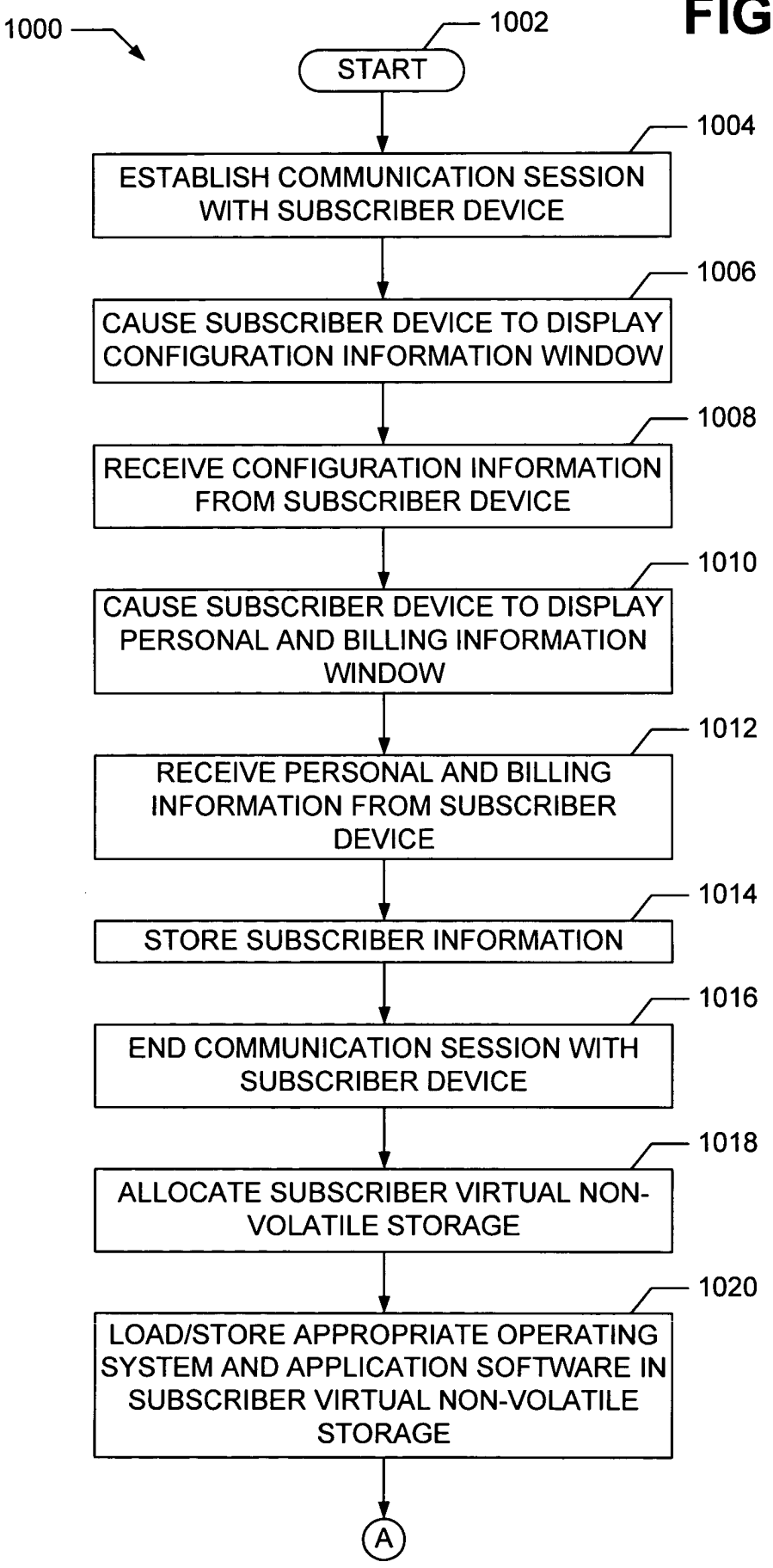

1000
1002
START
1004
ESTABLISH COMMUNICATION SESSION WITH SUBSCRIBER DEVICE
1006
CAUSE SUBSCRIBER DEVICE TO DISPLAY CONFIGURATION INFORMATION WINDOW
1008
RECEIVE CONFIGURATION INFORMATION FROM SUBSCRIBER DEVICE
1010
CAUSE SUBSCRIBER DEVICE TO DISPLAY PERSONAL AND BILLING INFORMATION WINDOW
1012
RECEIVE PERSONAL AND BILLING INFORMATION FROM SUBSCRIBER DEVICE
1014
STORE SUBSCRIBER INFORMATION
1016
END COMMUNICATION SESSION WITH SUBSCRIBER DEVICE
1018
ALLOCATE SUBSCRIBER VIRTUAL NON-VOLATILE STORAGE
1020
LOAD/STORE APPROPRIATE OPERATING SYSTEM AND APPLICATION SOFTWARE IN SUBSCRIBER VIRTUAL NON-VOLATILE STORAGE
A

FIG. 10B

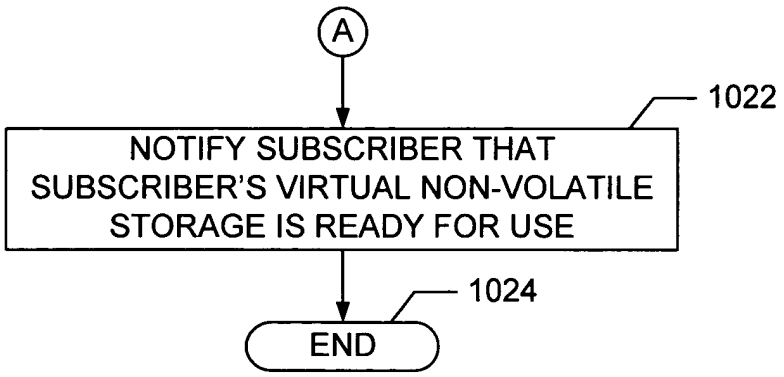


FIG. 11A

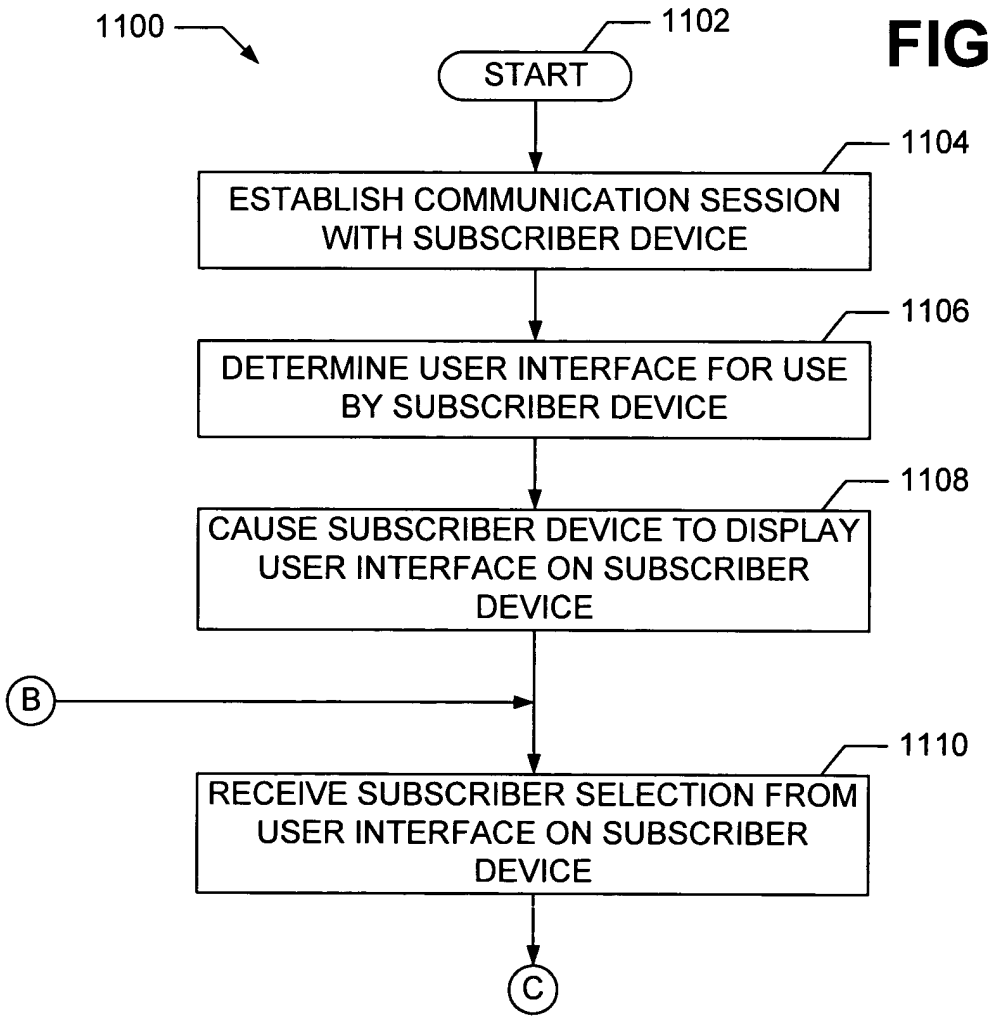


FIG. 11B

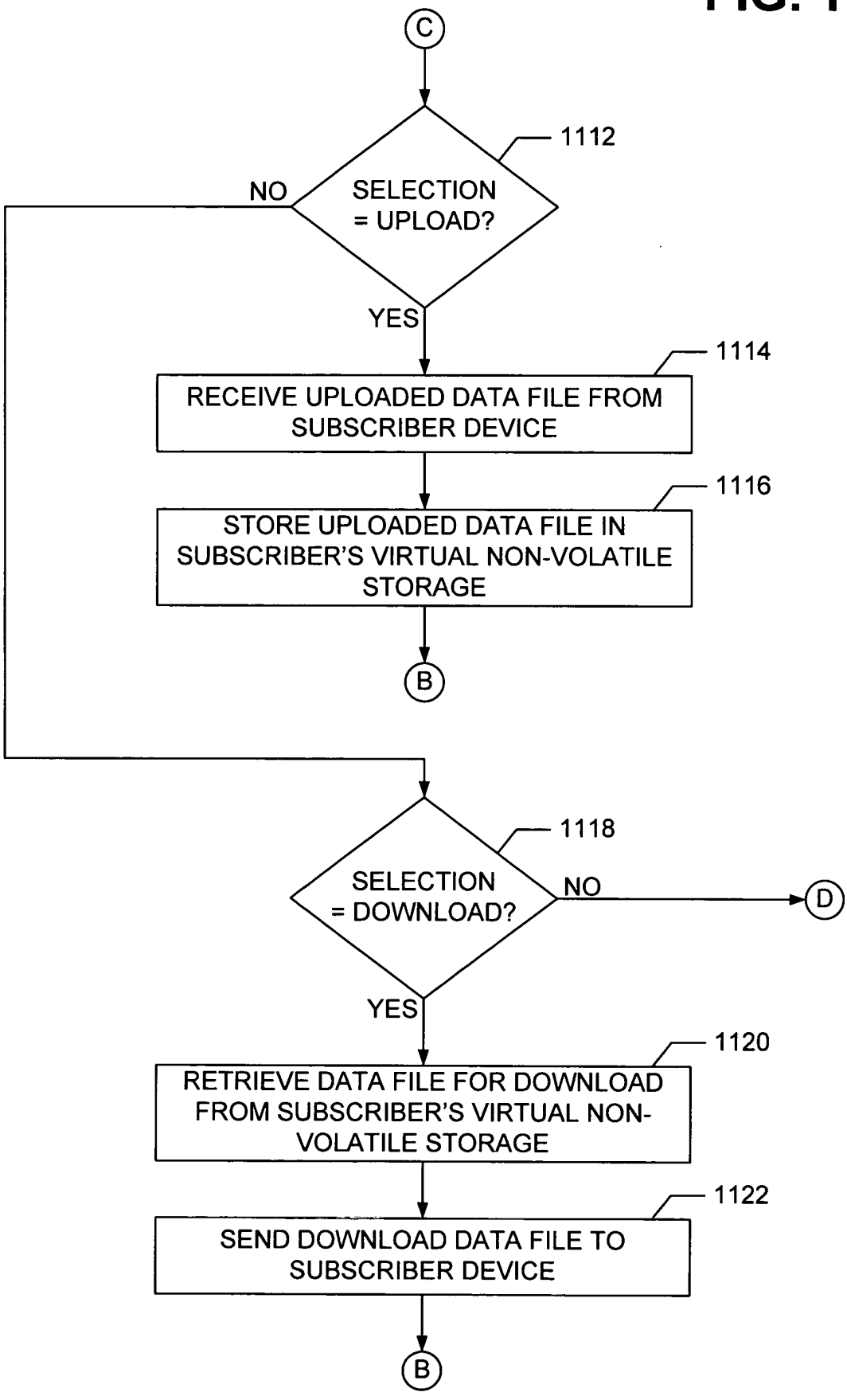
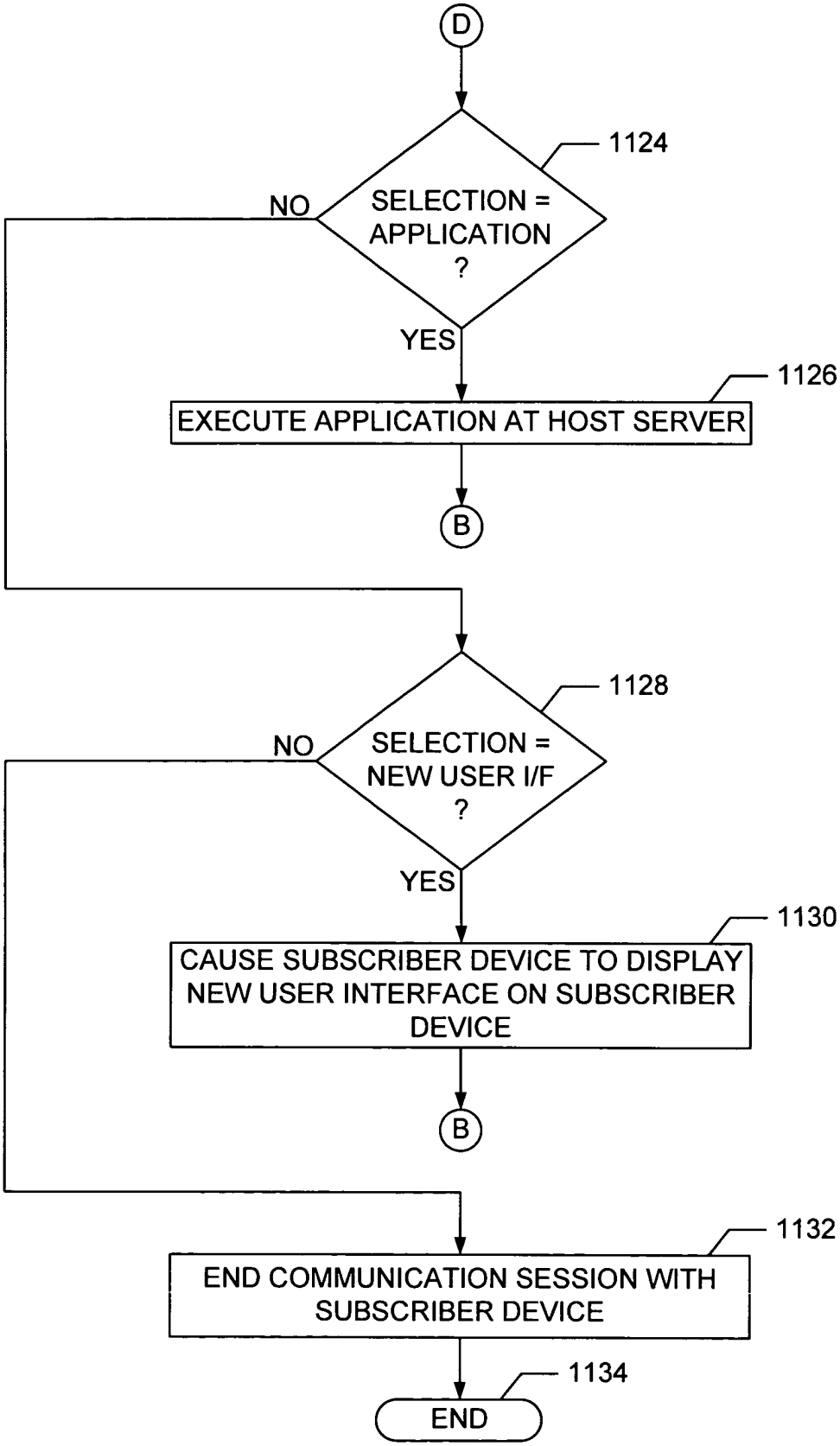

C
1112
SELECTION = UPLOAD?
NO
YES
1114
RECEIVE UPLOADED DATA FILE FROM SUBSCRIBER DEVICE
1116
STORE UPLOADED DATA FILE IN SUBSCRIBER'S VIRTUAL NON-VOLATILE STORAGE
B
1118
SELECTION = DOWNLOAD?
NO
D
YES
1120
RETRIEVE DATA FILE FOR DOWNLOAD FROM SUBSCRIBER'S VIRTUAL NON-VOLATILE STORAGE
1122
SEND DOWNLOAD DATA FILE TO SUBSCRIBER DEVICE
B

FIG. 11C


D
1124
SELECTION = APPLICATION ?
NO
YES
1126
EXECUTE APPLICATION AT HOST SERVER
B
1128
SELECTION = NEW USER I/F ?
NO
YES
1130
CAUSE SUBSCRIBER DEVICE TO DISPLAY NEW USER INTERFACE ON SUBSCRIBER DEVICE
B
1132
END COMMUNICATION SESSION WITH SUBSCRIBER DEVICE
1134
END

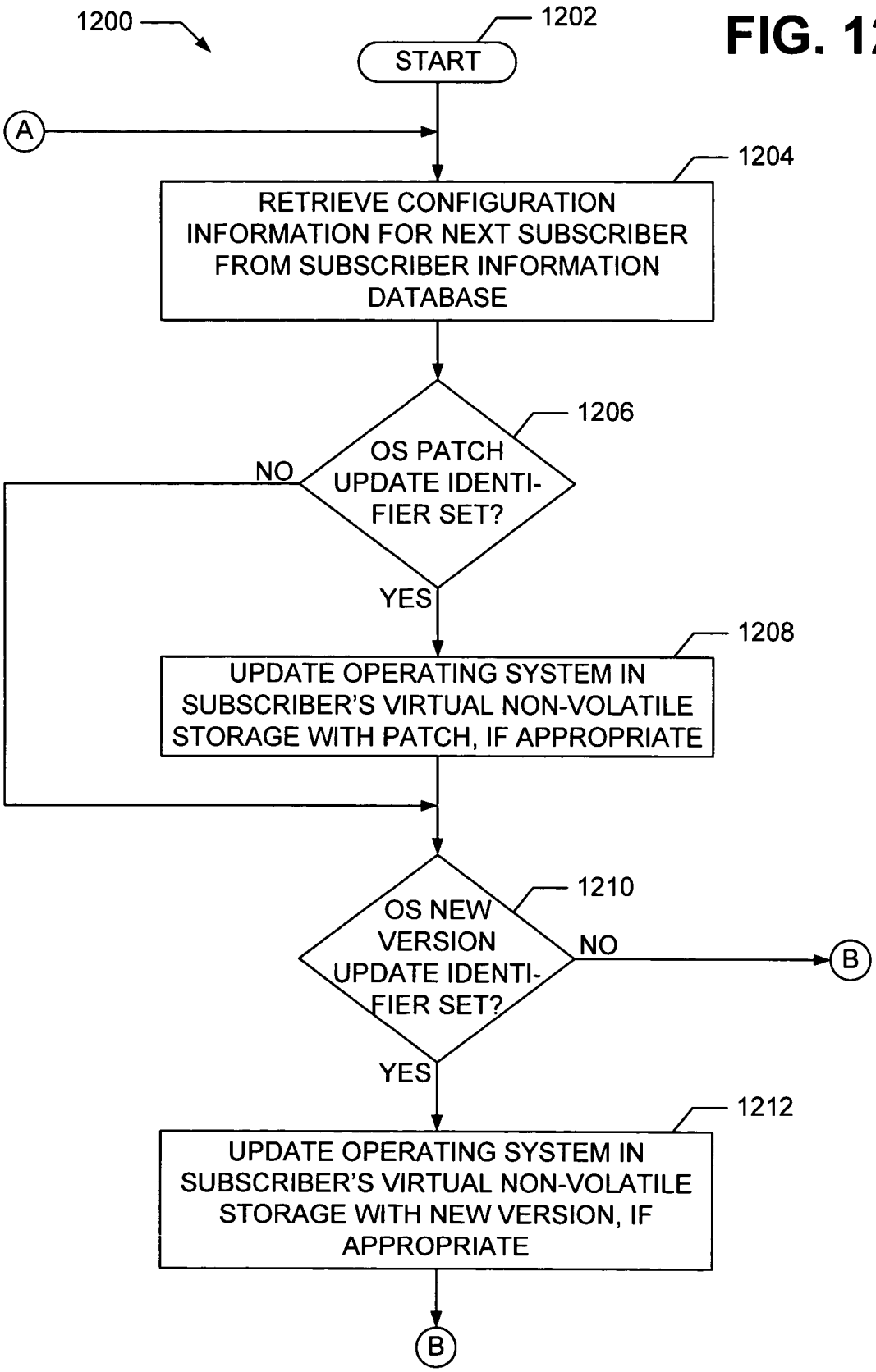

1200
1202
START
A
1204
RETRIEVE CONFIGURATION INFORMATION FOR NEXT SUBSCRIBER FROM SUBSCRIBER INFORMATION DATABASE
1206
OS PATCH UPDATE IDENTI-FIER SET?
NO
YES
1208
UPDATE OPERATING SYSTEM IN SUBSCRIBER'S VIRTUAL NON-VOLATILE STORAGE WITH PATCH, IF APPROPRIATE
1210
OS NEW VERSION UPDATE IDENTI-FIER SET?
NO
B
YES
1212
UPDATE OPERATING SYSTEM IN SUBSCRIBER'S VIRTUAL NON-VOLATILE STORAGE WITH NEW VERSION, IF APPROPRIATE
B

FIG. 12A

FIG. 12B

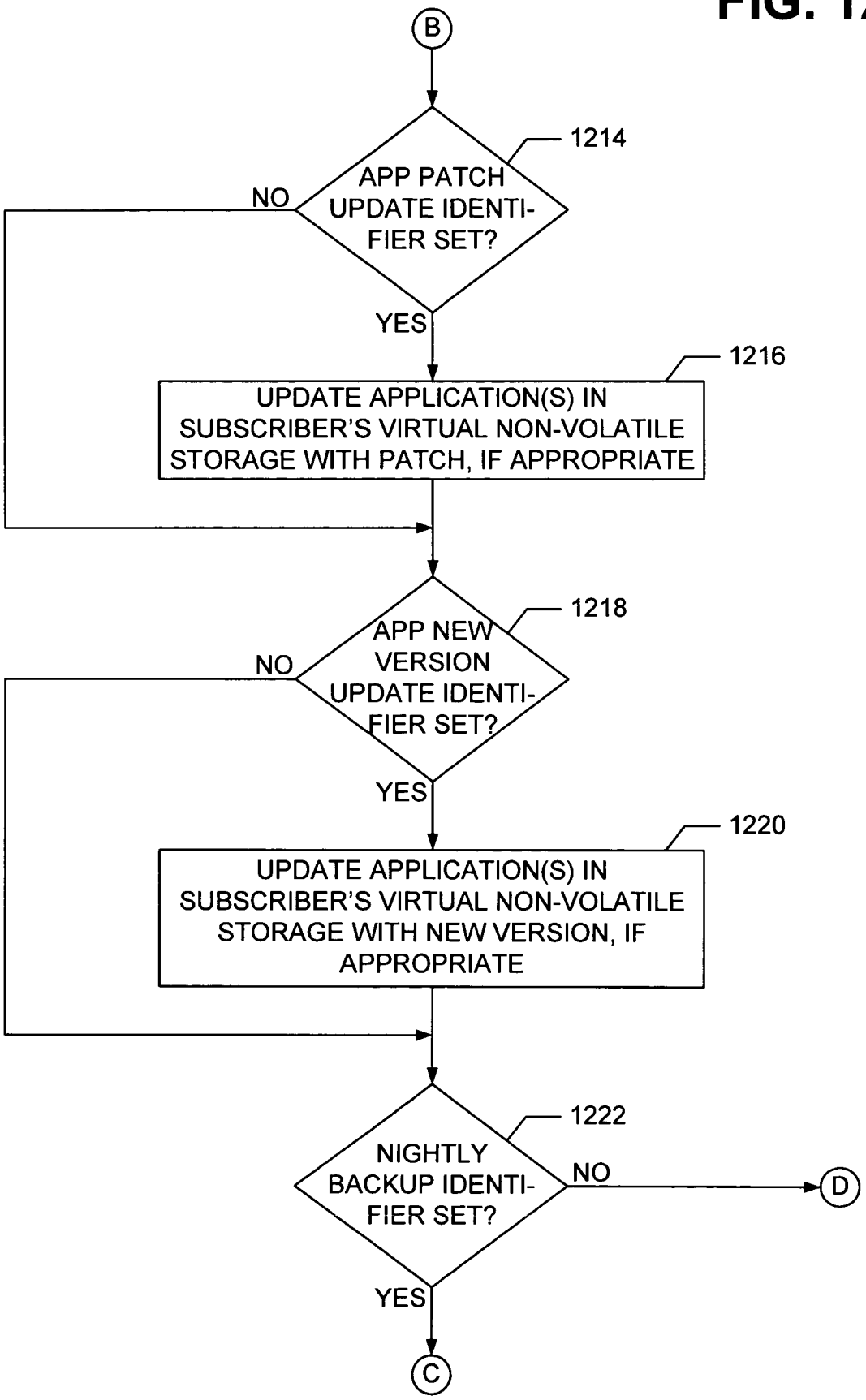
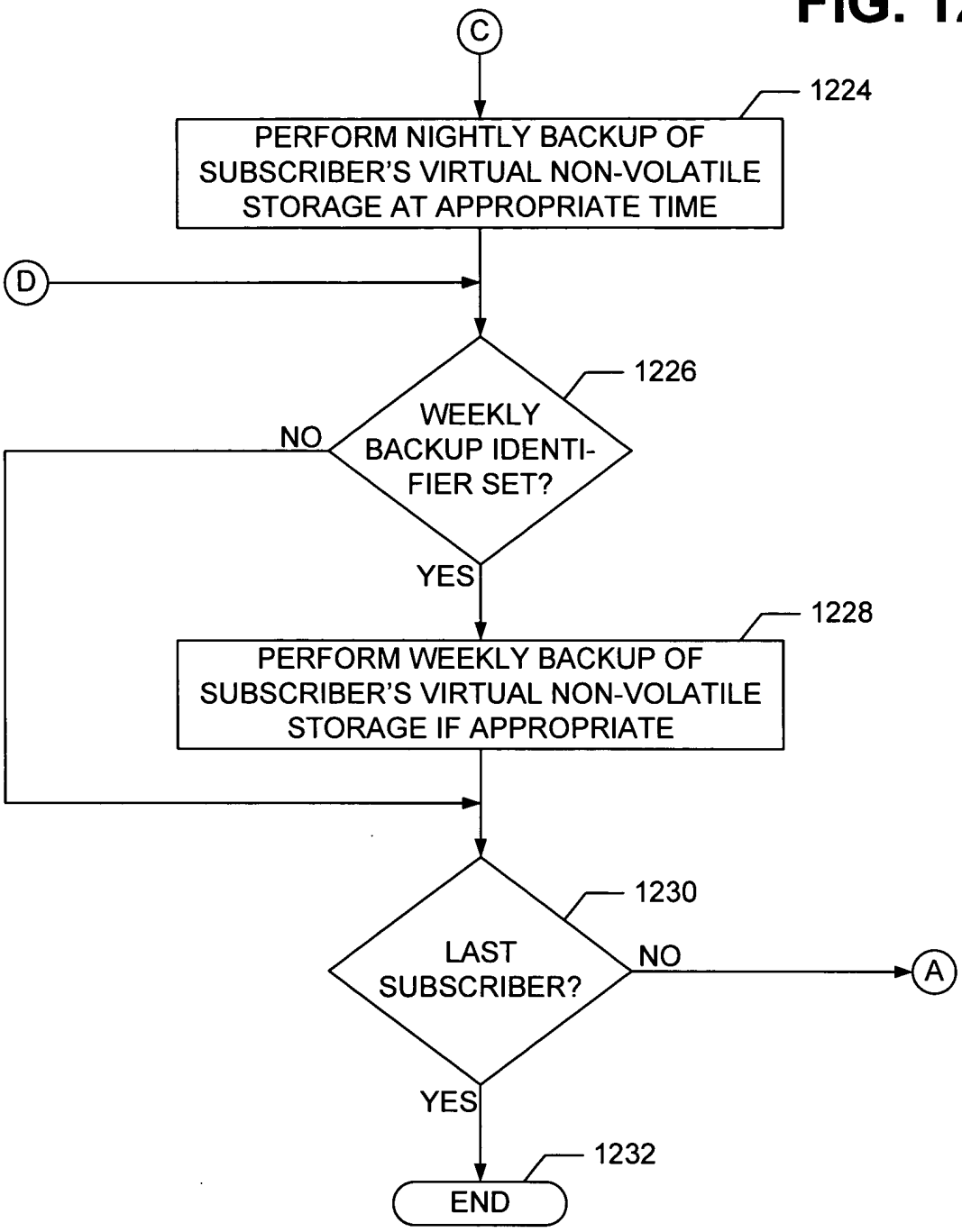

B
1214
APP PATCH UPDATE IDENTI-FIER SET?
NO
YES
1216
UPDATE APPLICATION(S) IN SUBSCRIBER'S VIRTUAL NON-VOLATILE STORAGE WITH PATCH, IF APPROPRIATE
1218
APP NEW VERSION UPDATE IDENTI-FIER SET?
NO
YES
1220
UPDATE APPLICATION(S) IN SUBSCRIBER'S VIRTUAL NON-VOLATILE STORAGE WITH NEW VERSION, IF APPROPRIATE
1222
NIGHTLY BACKUP IDENTI-FIER SET?
NO
D
YES
C

FIG. 12C


C
1224
PERFORM NIGHTLY BACKUP OF SUBSCRIBER'S VIRTUAL NON-VOLATILE STORAGE AT APPROPRIATE TIME
D
1226
WEEKLY BACKUP IDENTI-FIER SET?
NO
YES
1228
PERFORM WEEKLY BACKUP OF SUBSCRIBER'S VIRTUAL NON-VOLATILE STORAGE IF APPROPRIATE
1230
LAST SUBSCRIBER?
NO
A
YES
1232
END